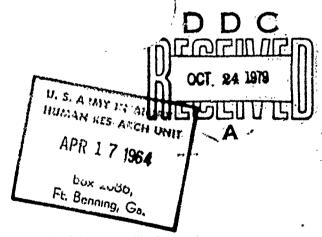


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4. Consulting Reports are prepared upon completion of consulting action requested under HumRRO's Technical Advisory Services. They are intended for a specific military audience and usually contain guidelines for implementation.

5. Research Bulletins are prepared an nontechnical numberies of one or more research. Tasks or as reports of other HumRRO activities. They are intended primarily for a military audience and do not present recommendations for Army action. Their distribution usually includes agencies and individuals conducting research, and the general public.

Technical Reports and Research Bulletins may be requested from the Director's Office, which also issues a complete bibliography. Other publications may be obtained from the Director of Research of the originating Unit or Division.

REPORT ON TECHNICAL ADVISORY SERVICES
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INTRODUCTION

Purpose of Technical Advisory Services

The Department of the Army and the Human Resources Research. Office have long recognized that Human Ro has a considerable value, and potential for value, to the Army beyond its formal reports of completed research and the pertinent recommendations resulting from research. The most direct and immediately recognized value grows out of assistance given to the agencies that implement recommendations after the related research Task has been completed. The potential value resides in the extensive body of knowledge, experience, and skills in the behavioral sciences possessed by the professional staff that can be applied with benefit to many operational activities where time or the nature of the problem does not permit a research approach. As will later be explained in more detail, this report consists of tabular presentations of Technical Advisory Services (TAS) activities and Action Briefings during the Fiscal Year (FY) 1963.

Background

Before the beginning of FY 1962, assistance outside the formal program of research Tasks given to operational agencies of the Army was accounted for under the heading of "consulting." It was recognized as an essential and legitimate expenditure of professional time but not to the extent that basic man-years were alloited for it in the formal work program. In a sense, time for consulting was "stolen" from time programmed for research Tasks.

In the preparation and approval of the Work Program for FY 1962, it was decided that a more formal recognition of and provision for technical advisory services were both required and justifiable. An Advisor for Technical Advisory Services was appointed and physically located in Headquarters, U.S. Continental Army Command (USCONARC), and a total of seven basic man-years was programmed for the Training Methods Division (TMD) and the five Human Research Units. It was anticipated that, as in the past, TAS would fall into two principal categories, implementation and consultation, defined as follows:

Implementation: Those formal and informal, coordinated Army-HumRRO activities designed to assist the Army in gaining the full benefit of HumRRO research.

Consultation: Activities less formal than implementation, offered on request, and designed to assist the Army by providing data, information, or advice based on the competence of HumBRO personnel.

Implementation

Implementation frequently takes place during the conduct of research Tasks and their related subtasks. For example, the product of one subtask, required for the conduct of subsequent subtasks, might be a thorough analysis of a Military Occupational Specialty (MOS). While the analysis is used primarily for this purpose, it may also be used for other purposes by the school or center concerned with training in the Specialty.

During the active lifetime of a research Task, timefor implementary services is charged to the Task. Ordinarily, description of such activities would not appear in this report. Exceptions are made, however, where aid has been given to a sister service, as in the case of the Navy (see Table 2) where funds were supplied to obtain the assistance, and where knowledge gained in conducting the research was requested to aid related efforts by other agencies. With the approval and distribution of the final reports the Task is completed, the Task account is closed, and no further charges may be made. This is frequently the time when extensive assistance may be required to implement the over-all recommendations. Once implemented, it may also be helpful to review periodically the current operation of the research-based activity, and to propose modifications where appropriate. In this manner HumRRO assists the Army in maintaining the operational efficiency and effectiveness of the research product.

Consultation

Personnel who participate in the HumRRO research program must have competence in a wide variety of skills and techniques. This capability is developed by formal education through graduate levels, and increases with experience gained through research in specific Tasks. Some of the skills, techniques, and procedures in the scientist's repertoire are those required in planning the conduct of scientific research; in collecting data (building questionnaires, rating forms, etc.); in analyzing the data and presenting it logically and statistically; in evaluating training methods and devices; and in making evaluations of materiel, from the human factors point of view.

There are many operational questions requiring quick answers where the application of these skills could assure more effective results. A great many consultations with HumRRO personnel take so short a time—a half hour to an hour—that preparing a formal report may take more time than the consultation. Yet, by a transfer of knowledge, the requester may be set on the right path so that he can proceed directly to his goal. Experience gained in the conduct of research in a specific area may provide answers to questions in related areas. Research by products may also be applicable in areas other than those for which they were designed. As another example, answers to the questionnaires that are sent out for field evaluation of training-course graduates may prove useful when combined and analyzed. To make these answers valid, the questionnaires may need modification, and here again expert advice is helpful.

Sometimes the consultation may be fairly extensive and significant enough to warrant the publication of a Consulting Report. As an example, the materials prepared to conduct workshops in programmed instruction for the Army were found suitable for reference texts. They were bound and distributed for use by other agencies in the conduct of their own workshops and for use by beginning programmers in preparing programs. Three Consulting Reports are listed in Tables 3, 6, and 7 of this report, even though the Tasks are still active. According to fiscal accounting procedures, these should properly be charged to the parent Task rather than to TAS. They are included, however, because they represent a service to the Army. For the purposes of this report, however, strict fiscal accounting procedures need not prevent the inclusion under TAS of the services represented by these Consulting Reports, which are truly advisory in nature.

Technical Advisory Services for Fiscal Year 1963

TAS provided by the Director's Office is, in a sense, a continuing activity. During this year the newly appointed Advisor for TAS at Headquarters, USCONARC, responded to requests for publications, for advice, and for information of all kinds related to HumRRO work. He arranged for briefings on current research, and for implementary actions. In addition, a continuing stream of visitors came to the Director's Office with requests for publications, coordination, and data. Some of this may be considered merely the ordinary conduct of business in a research agency. However, many requests for assistance and for briefings for Allied military and professional personnel, coordinated through the Office of the Chief of Research and Development, are considered TAS in that they tend to support the interests of the Army. The same is true of such requests from the other military departments and the Department of Defense.

Some examples of TAS activities in the Director's Office follow:
Continuing from the previous fiscal year and carrying on into
the first quarter of FY 1963, Dr. S.J. Goffard, Advisor on Psychological Research Methods, visited and deliberated with personnel of the
U.S. Army Special Warfare Center (USÁSWC) on the subject of learning
radio code. Drawing on past research results, he made recommendations which were adopted to improve the efficiency and effectiveness of
the training. This TAS was performed at the request of Headquarters,
USCONARC and USÁSWC.

In October 1962, Dr. W.L. Williams, Jr., Humaro, Col. D. Cooper, and Lt. Col. F.J. Michaelson consulted with Training Command, U.S. Atlantic Fleet (TRALANT) Navy, concerning functional context training (FCT), a product of past Humaro research in Tasks REPAIR and LIMIT, for the Army. This resulted in recommendations from TRALANT to the Chief of Naval Personnel for modification of a certain engineering/advisory service contract with a civilian firm. The contract was to incorporate the requirement for the essential FCT procedures to be used by the firm to assist the Fleet Sonar School, Key West, in developing its training program.

Beginning in May and continuing beyond the end of the fiscal year, at the request of the U.S. Army Research Office (ARO), implementary assistance was given by Dr. W.A. McClelland, Deputy Director, General Operations and Personnel, Dr. J.C. Rupe, Advisor for TAS, and Dr. A.J. McKnight, Senior Scientist (TMD), toward carrying out the recommendations of Task UPSTREAM. As this assistance included the proposal to use documents developed under Exploratory Study "System;" TMD and the Air Defense Human Research Unit participated with the Director's Office in providing this TAS. As members of ah ARO committee, the Human Personnel served with those from the U.S. Army Personnel Research Office, Human Engineering Laboratories, and Army Materiel Command planning the "operational test" of the Integrated Man-Machine Research and Development (IMMRAND) concept in new weapon-system/development.

Following are tobular presentations of the TAS activities of the HumRRO Divisions and Human Research Units and a tabular presentation of Action Briefings conducted during FY 1963, although by definition these Briefings are not TAS. This report is designed to convey a feeling for the scope, importance, and variety of activities in which HumRRO personnel have participated. Reports of the subject matter of TAS were separate from fiscal accounting, and time expended was not always indicated on the reports that are summarized here. If time was reported, it has been, where possible, combined to represent the total amount expended by all personnel.

Some TAS activities have been individually reported because of factors such as extensive amount of time expended, amount of work done, or significance. Others have been grouped together because they dealt with the same topic, have continued over a period of time, and have been the subject of several reports. Still others have been grouped together because they have often been accomplished in one day or less, even though individually they may have importance for the requesters or significance in time saving, prevention of false starts, improvement of effectiveness, and so forth. To report each of the myriad contacts would probably have bogged down the reader in excessive detail and detracted from the interest of this report.

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1 July 1962 - 30 June 1963

Tables 1 - 8

Toble 1-Training Methods: Division:

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)		
FORECAST	FORECAST anniatance to U.S. Navy	COMTRADAÑŢ	Marelun 63 (Continu- ing into FY 64)	Dr. Shriver Mr. Trexler	42		
	Objective: To train Navy training with FORECAS AN/UPN-15 systems;						
	Cotcome: The FORECAS mented at the Elect Tra Elect and generating re compared with that of g	laing Genter in traiu	ing personnel aduates; perf	for the Atlantic			
FORECAST	Briafing.	USASCS	Sep 62	Dr. Shriver	i		
	Objective: To brief USA electronics maintenance OrdCorps.				^ -		
	Outcome: Discussion of to electronius maintena		uld fit or cou	ld be tailored	-		
FORECAST	Assistance in prepar- ing FORECAST analysis.	USAOMC	Nov-Dec 62	Dr. Shriver Mr. Trexler	12		
	Objective: To assist the USAOMC in preparing a FORECAST analysis of the Rawkiniss Pertent set to be used as a field change to the Technical Manual. The manufacturer's documentation in the Technical Manual was deemed inadequate by the USAOMC.						
	Outcome: A FORECAST dected, decimentation the manufacturer's documented to the USAOMC Manual.	was prepared, and the imentation were spec	e errors and	inadequacies of ackage tras pre-			
No! Task- Related	Identification of course material umenable to Pl.	USÀSWC	Mar 63	Dr. Hoehn Dr. Seidel Dr. Fikk	16		
	Objective: To examine training content of courses at the USASWC and USASWS; to identify what would be unenable to PI.						
	Outcome: A memorandur Instruction to SEG and purpose of this memora application of PI, to id PI, and to suggest an a	ty. "Suggestions for SWS Training," was ndum was to авясян entify course conten	Application of submitted to potential gai t material mo	the Center. The partheone through the standard to			

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Table 1 (Continued)

Training Methods Division

Task or Activity	Nature of TAS	Requesting Agency	Ďate	Advisory. Personnel	Time Expended (dáys)				
Not Thek- Related	Guidance on training of low-aptitude personnel.	-USASÇS	Jun 63.	Dr. Lyons Dr. Vineberg. Dr. Shriver Dr. MacGaslin Dr. Seldel Mr. Trexler	2				
	Objective: To provide information relevant to the training of low-aptitude personnel for Dr. Vincent Cieri, Educational Advisor, USASCS,								
	Outcome: Dr. Cleri was discussed his problem potentially relevant doc JOBTRAIN, and SHOCK	with various members uments from Tusks	of the Divi	sion. Ho was given					
Jobtrain.	Field Test by School of JOBTRAIN Course,	USASESCS	Jan-Jun 63 (Continu- ing into FY 64)	Mr. Gebhard	38,				
	Objective: To named USASCS personnel in the development of an experimental course for training radio repairmen in accordance with JOBTRAIN methods.								
	Outcome: Assistance we printing of job aids. Ti			sson plans and					

Ţable, 2: Training: Methods: Division and Language: and Area Training: Ďivision!

بيت خسيب			T	12 - 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
Task of Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnels	Time Expended (days)			
Not Tusk- Related	Language Training in the Orientation and Career Course, U.S. Army Talor Program, Phase L	USCONARG, under direction of ODCSOPS	Sep-Dec. 62	Dr. Rocklyń Dr. Eika Dr. Garvey Dr. McGrafy	-31 -5			
	Objective: To avaluate a officers for urgent and u program culled for the tr. Courses at each Service	npredictable oversei nining to be wilded t	es assignmen	tu. This language				
	Outcome: A report was p likelihood of success wi taking. Ways of coping- centing the plan were so review, however, program and the nyathability of fo	ith the estimated cor with major problems regested. Subseque if implementation wa	sta and magn that would b nt to the proj	itude of the under- e met in imple- paration of this	y.			
Not Task- Related	Victoria Canguage Training Program at the U.S. Army Spe- clul Warfare Center, Fort Bragg.	USCONARC (Requirement levied by Maj, Gen. Clark, ARO)	Nov 62	Dr. Rocklyn Dr. Fiks Dr. Garvey	4 <u>8</u> -			
	Objectivet The provide military personnel ansigned to Victnem with some missingly exposure to Victnem when circumstances made it impossible to utilize existing Army language training facilities.							
	Outcook: After teview of the existing Victobacce language program, an interior recommendation was made regarding the more effective use of resources at Fort Brage. The leadibility of a brief, self-instructional course in Victobacca, recommended by OGRD to be developed for Victobacca assignces, recommended by OGRD to be developed for Victobacca assignces, was investigated. The outcome was the establishment of lightfill Task MALT, with the objective of developing, as recommended, a brief, self-instructional course in Victobacca simed at providing language skill for personnel assigned to Victobac, when schedules do not permits formal language training.							
Not Task- Related	Comparison of two las- guage aptitude tests, the Modern (MLAT) and the Army (ALAT) Lan- guage Aptitude Tests.	-ĤÓ.DŗI	Mar-Jun 63	Dr. Rocklyn Dr. Leady Dr. McGrary	45			
	Objective: To obtain technical information that could be used as a basis for deciding which of these two aptitude tests should be standardized for used in the foreign language training programs of the DOD:							
	Outcome: A report of the The report provided a te the ALAT is the standa Detailed estimates of th by using this test will be	chnical basis for the Direction of the D	e decision of OB language conomic savi car future by	the DLI to utilize training program, ngs to be effected				

Table 2 (Continued).

Training Methods Division and Language and Area Training Division.

Tusk or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)	
Not Task- Related	Consultation and review of programmed texts on nuclear weapons and their effects.	USAF Réserve. Andrews AFB	Jul-Aug 62	Dr. Rucklyn.	3	
	Objęcilys: To review a p	rogrammed text on n	uclear weapo	ns and		
	Outcome: After reviewing made-in regard to change revised in accordance wi fication was received fro efficiency of text usage.	s and additions. Thith the recommendation the USAF Reserv	ons, and sub	d text was sequent noti-		
Not Tank- Related	Observations and Recom- mendations concerning technical training in the Chinese Army.	The Chinese Nationalist Army	Oct-Nov 62	Dr. Brown	1	
	Objective: To provide recommendations for improving technical training employed by the Chinese Nationalist Army, Taiwan, as requested. This service was in actuality a by-12 sluct of a trip to Taiwan, accomplished in connection with Exploratory Study Map.					
	Outcome: A report of on- was furnished the Annia Nationalist Army. The C recommendations which by the General Stall to a improvement of training	tant Chief of Staff for Tommunder-in-Chief were then reflected Il Army Service Sch	e Personnel subsequently in official di	of the Chinese approved the ectives issued		
Not Tank- Related	Estimation of foreign- language-speaking proficiency of large numbers of Armed Forces personnel.	no pli, kcb	Jun 63	Dr. Leedy Dr. McGrary	20	
	Objective: To facilitate an empirical examination of the feasibility of using the machine-acorable Army Language Proficiency Test to entimate levels of speaking proficiency.					
	Outcome: Data collected graduates in several lan rently being analyzed: to DLI, BCB.	guage departments u	t the DLI, W	GB are cur-		

Table 2 (Continued) = 18.

Training Methods Division and Language and Area Training Division

Task or Aptivity	Nature of TAS	Requesting Agency	Date	Advinory Personnel	Time Expended (days)			
Not Task- Related	Planning of data col- lection procedures fac.DLI, WCB.	HQ DLI; DLI, WCB	Juñ 63,	Dr. Leedy	24			
š	Objective: To advise o to the collection and co gress of language train	ollation of data for the						
	Outcome: A raylow of a data collection and atc paper coincident with t	xago system at DLI, I	ICB has bee	n completed. A				
Not Task- Related	Problems in cross- cultural technical assistance.	U.S. Army Civil Affairs School, Fort Gordon	Jun 63	Dr. Foster SP Nelson	1.			
	Objective: To provide the Civil Affairs School with some resource material on the problems and socioeconomic developments experienced in the process of rendering technical assistance in cross-cultural civic actions.							
	O stoome: A collection of illustrations of problems in cross-cultural tech- nical assistance, furnished (unsolicited) to the Civil Affairs School, was gratefully acknowledged by the Commandant. The material is believed to have been subsequently utilized as training content by school instructors.							
Not Task- Related	Problems in Lan- guage Training and Evaluation.	DLI, WCB	Apr-May-63	Dr. Leedy Dr. McCrary	25			
	Objective: To review special problems involved in measuring for ign- language speaking proficiency, language aptitude testing, research needs, and data retention at the DLI, WCB.							
	Outcome: A report was lems. The report provi WGB and HumRRO.				-			

The Language and Area Training Division was activated on 1 April 1963, composed in part of personnel with language research Tanks from TMD, and personnel from the Special Mariare Group (D.O.).

Table 3 U.S. Army (Armor: Human-Research : Únit-

Task or Activity	Nature of TAS	Requesting Agency	Date	Adyluory Personnel	Time Expended (days)
Not Tusk- Related	Preparation of training manual on "The MII. Relationship."	Brig. Gen. Dobson, Annt. Comdt., USAARMS	Nov 62-	Dr. Gannon	
VE-TRAIN	Revision of Organiza- tional Vehicle Mainte- nance (MOS» 631, 632) to MOS 631; review of POI».	USCONARC	Sep 62- Feb 63 (Continu- ing)		
Not Task- Related	Assistance in revision of "The Tank Gunner's Guide (Tank, 105-mm Gun, M60)" TC 17-9.	USAARMS	Feb 63		
Not Task- Related	Preparation of BCT questionnaire.	USATC, G-3, Atmór	Apr 63	Dr. Whitmore Dr. Cuanon	10
Not Tusk- Related	Service on Ad Hoe Committee to examine BCT to align it with needs of basic soldier. Review of ATF 21-114.	USCONARC	May 63'	Dr. Whitmore, ADHRU Dr. Taylor, LifRU Dr. Snyder, LifRU Dr. Showel, LifRU Dr. Ward, HRU Dr. Cox, ADHRU	
Not Task- Related	Preparation of CR, "Status Report of Résearch on Problems of Graw Patigue."	USÁCDC. Ármor Agénay	(Continu- ing)	Dr. Cannon	
Shillelagh	(1) survey of develop- ing agencies to obtain task and skill informa- tion on crew operation and user maintenance. (2) conferences with the Army Participation Group, USNTDC, on pro- posed modifications of	USCONARC	(Continu- ing)	Dr. Haggard	<u>(60</u> :
(3) relate to the USAARS inary plots to the P Office, all for y	requirements for devices. (3) relay of information to the USAARMS and the USAARMS for the preliminary planning of training.				
	(4) relay of information to the Program Manager's Office, Rock Island Arse-cal for use in planning MET and training equipment development.	(Gontinued)			

Table 3'(Continued) US. Aşmy, Armor Human Research, Unit

				····	, , , , , ,
Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Shillelagh (Continued)	(5) relay of information to USCONARC for the planning of training programs on operational and maintenance skills.				
Mod X Cupola for T-114	(1) a discussion of the following problems with General Electric representatives on a GE proposal for a power-driven comman cupolas (a) human factors pertaining to the design of the control and viewing systems of the turret, and: (b) human capabilities pertaining to operational and training requirements.	d - n-	FY 63	Dr. Haggard	20 .
	(2) consultations at USAC Armor Agency on human ca bilities as they pertain to Mod X Cupola.	pa•			
	(3) participation in a proli nary evaluation of a propos power system for the Mod 3 Eric Proving Ground.	ved			
	(4) participation in an ope tional test of the manual sy tem of the Mod X, conducte the Armor Board.	` #-			
Not Task- Related	The driver-in-the-turret concepts Advice was provided for the human factors analysis of the driver's comparment of an experimental tasturret. A human factors review was written, in connection with a test of the concept conducted by the Armor Board.	1- nk	(Continu- ing)	Dr. Haggard	40

Table 3 (Continued)

U.S. Army Armor Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Rolated	Evaluation of flash localization performance of tank gunners; (using a new grid-type reticle graduated in hand-crank and pump-assembly tures), begun in FY 62, was continued jointly by Unit and Armor School-personnel. Eighteen subjects were tested under experimental conditions in darkness; gun flashes were simulated field evaluation of the flash localization performance of tank gunners was then conducted. A report of the experimental work was read at the APA. (Preparation and staffing of the report and additional data analysis were continued into FY 64.)	d.	FY 62 FY 63 (Continu- ing into FY 64)	Dr. Sualey	40

Töble.4--: U.S. Ařmy Leadership. Human Réséarch Unit^e

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Task.or. Activity.	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
NCO.	Gonduct of Leader Preparation Enculty Training School for faculty of Fort Polk ATC. Visits to LPSs at Forts Knox, Jackson, Gordon, and Polk.	USCONARC	Jul.62	Dr.: Hood:	23.
NCO	Modification of Leader Preparation course for WAC.	USCONARC	Sep-Dec 62	Dr. Hoód	1
RĄID I	Long-range reconnain- nance patrol training and operation in USAREUR.	Seventh Army, G-2;	Sep-Dec 62		ı
Not Tank- Related	Briefing consultation for Brig. Gen. Wm. W. Bense Jr., Aundemic Denn, USA	all,	Aug 62	Dr. Taylor Col. Green Gen; Sebree	
RAID I	Preparation and publication of CR, "Summary of Human Factors Relevant to the Training of Long-Range Reconnitioning ance Patrol Companies in the Seventh Army" (Foundaries Unternal Use Only).	5-	Jan 63	Dr. Murphy Dr. Smith Mr. Wheeler	
Not Tank- Related	Service on Ad Hoc Committee to examine BCT to align it with needs of basic soldier.	USCONARC	Maý 63	Dr. Taylor, LHRU Dr. Snyder, LHRU Dr. Showel, LHRU Dr. Ward, LHRU Dr. Cox, ADHRU Dr. Whitmore, AHRU	12
Not Task- Related	Briefing to staff of USAINTC	USAINTC	Sep 62	Dr. Binlek	i
Not Task- Related	Survey of problem areas in which human factors, research might be undertaken; survey of research facilities and ongoing human factors research.	HQ USARAC	Sep 62 [.]	Dr. Kém Dr. Berkun	.10

[&]quot;As of I Oct 63, U.S. Aimy Training Center Human Research Unit.

Table 4 (Continued)

U.S. Army Leadership Hyman Research Unit

Tank or Activity	Suture of TAS	Requesting Agency	·	Advisory Personnel	Time Expended (days)
Not Tusk- Related	Study on trends of several variables relating to USALS training mission; study on relationship between ALAT and training accomplishment.	USALS	FY 63	Dr. Caylor Dr. Fox	74
Not Task, Related	Ausistance on leader- ship course.	USMA	Feb 63	Gen. Schree	2.

.Ţóble-5 "U.Ş. Army Infantry Human Résearch Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Tank- Related	Critique and consul- tation on "A Study to: Conserve the Energy of the Infantryman."	USAJGDA:	Mar 63	Col. Kelly	1
Not Task- Related	Conference concerning coordination of activ- ities between IHRU and USAICDA.	USAICDA	Mar 63	Dr. Lange Col. Kelly Capt. Tom	
RIFLEMAN V	Consultation on pro- duction of Army train- ing film to supplement Advanced Land Navi- gation Program.	Special Subjects Dept., USAIS	Sep-Nov 62 (Continu- ing)	'Mr. Pówérá	2
RIELEMAN V	Consultations on Advanced Land Navi- gation Program with Map Reading Committee.	Special Subjects Dept., USAIS	Dec 62- Jun 63 (three meetings)	Dr. Nichols Mr. Powers	
Not Tank- Related	Consultations on and instruction in the methods of programmed instruction.	Editorial Advisor, USAIS, Office of Goordinator of Instruction	Jan-Jun 63 (Continu- ing; seven meetings)	Dr. Lange Dr. Jacoba Mr. McGrystal	
Not Tusk- Related	Comments on draft. FM:23, "Technique of Fire of the Rifle Squad and Tactical Application	usais	Nov 62	Col. Kelly	
Not Task- Related	Analysis and inter- prétation of data on rélative effectiveness of several shooting positions at various ranges and under vari- ous time pressures; con- sultation on same subject		Jan-Mar. 63	Dr. Jacobs	2
Not Task- Related	Review of proposed test of 90-mm récoil- less rifle.	Wenponn Dept., USAIS	Feb 63	Dr. Jacoba Col. Kelly	3
LEAD4II.	Preparation and brief- ing on IHRU and HumRRO's work in Pl for workshop for pro- grammers being con- ducted at the USAIS.	USAIS	May 63,	Dr. Jacobs Mr. McCrystal	14
Not Tusk- Related	Attendance at demon- stration and conference on Hughes Aircraft Co., Luser Range Finder,	CDCIA (Continued) —	May 63	Dr. Nichols Col. Kelly Mr. Powers	.j.

Table 5 (Continued)

• U.S. Army Infantry: Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advlaory Personnel	Time Expended (days)
Not Task- Related	Consultations on IHRU running man tur- get for use in resident machinegun instruction,	Wenpons Dept., USAIS: Chief, Engineering Division, Rock Island Arsenal	Feb.63	Mr. Fooks Col. Kelly Mr. Waites Mr. Harris Mr. Elder	:5
LEAD	Preparation and presentation of briefing on Rifle Platoon Taction! Doctrine for Ranger Dept. instructors at conference.	Ranger, Dept., USAIS	Mar 63	Col: Kelly	1.
OFFTRAIN (V LEAD	Consultation with Marine Corps School personnel regarding leadership training.	Marine Corps Schools, Quantico, Va.	Jun 63	Dr. Jacobs	.5
OFFTRAIN IV	Consultations with Chief of Staff TRALANT; supplied 100 copies of training package, Basic Prob- lems in Small Unit Lead- ership, Instructor's Guide and Practical Exercises.	Bureau of Navals Personnel	Jul-Dec 62		
OFFTRAIN-IV	Visits were made to various military installations where ROTC Units were undergoing their summer training to assist in implementation of OFFTRAIN IV.	USCONARC	Jul 62	Dr. Jacobs	17:5 /
Not Task- Related	IHRU personnel supplied comments on tactical doctrine, infantry requirements, and training implications at the CDGIA Wespons Conference.	GDCIA (Gontinucá)	Jun 63 ²	Col. Kelly Lti Col. Brown Mr. Powers	4,5

Tablé/5 (Continuéd)

V.S; Army, Infantry/Human/Research Unit

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Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (daya)
Not Task- Related	Gonsultations (24 of one day or less) concerning human factor problems, review of training materials, attending conferences, presenting training courses, evaluation of proposed products, etc. Subjects included were techniques of fire, night vision weapons sight, Army marksmanship program, combat reaction course, explosive foxhole digger, live night-fire problems in BCT, and U.S. Army Air Assault Division.	Agencies assisted were mainly USAIS such as Wespons Deptt, Editorial Advisor, etc., but also included USAIGDA, USMA, USAIB, CORG, and industry.	Jun 63 (Continu- ing)	All professional atalf members participated in one or more.	

Taţle 6
"U.S., Army, Air Defense Human Research Unit

Task or Activity.	N≅ture of/TAS	Requesting Agency	, Date		Time vpéndéd (days)
	Preparation and publica- tion of GR, "The Text of an Orientation Workshop In Automated Instruction."	•	Jul:62 [,]	Dr. Melching ≥Dr. Cox Dr. Rupe Dr. Smith	
	Conduct of two-week workshops in Programmed Instruction to train pro- grammers at Forts Benning, Lee, and Bliss.	USČOŇARG	Oct- Nov 62	Dr. Melching Dr. Rupe Dr. Kubala Mr. Christensen	132
ŤEXTRUCȚ II-	Consultation on evaluating ARADSCH-produced auto-instructional program, developed by sindent of ADJIRU Workshop.		May 63:	:Ďr. Melôling	
UPSTREAMS System (TMD)	Participation in Elec- tronic Industries Associ- ation. M.—5.7 Human Enctors Subcommittee on Development of a DOD- Wide Human Factors Specification.		Jul`62 (Còntinu- ing).	Dr. Rupe, ADHRU Dr. McKnight, TMD Mr. Butler, TMD	
Not Task- Rolated	Consultation on preparation of brothers on training quality control, "End-of-Course Qualification Test."	ARADSCH of request of USCONARC	Aug.62	Dr. Rupė	
Not Tank- Related	Presentation of paper on Technology of Training at ATRC Con- ference on training eval- uation at Lowry AFB.	ATRC	Sep 62	Dr. Smith	3 ,
VIGIL	Provision of information on optimum-length of radar watch, and optimum radar symbology.	USAĄDČDA	Sep 62	Mr. Wright Mr. Lehr	
RADAR VI MAINTRAIN I	Consultation to improve the teaching of basic electronics.	Asst. Comdt., ARADŞÇH	Oct 62		•
MAINTŔAÌN	Consultation at Bell Telephone Luboratories on application of MAINTRAIN techniques to:Zeus (A-VIS).	Zeus Project Office, Bell Telophone Labs	Oct 62	Dr. Rogers	

Table 6 (Cantinued)

.U.S. Army Air Defanse: Hyman Research Unit

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Task or Activity	Nature of TAS	Requesting Agency	Date		Time Expended (days)
Not Task- Related	Preparation of proposed method for evaluation of A-VIS.	ÜSARADBD:	Nov 62	Dr. Baldwin Dr. Rögers	Ţ
PIONEER V	Consultation and work on ARO. Committee on STINFO:	ARO-	Nov- Dec 62	Dr. Rogers	
Samoff III Samoff IV	Briefing on SAMOFF reagarch: given at Hed- atons: Arsenuls for USAOCMS.	Comdt., USAOGMS	·Dec·62	Dr. Haverland Dr. Ammerman	- 6
			Feb. 63		-
MAINTRAIN V	Consultation on correction of inndequacy of Preliminary MAULER Task and Skill Analysis (TASA) produced by contractor Preparation of sample TASA on links to aid contractor.	ÁRÁDSCH	Apr 63	Dr. Baldwin Dr. Rupe Dr. Cox Mr. Thorne Mrs. Harris	16
	Service on Ad Hoc Committee to examine BCT to align it with needs of basic soldier.	yscónará	May 63	Dr. Cox, ADHRU Dr. Taylor, LHRU Dr. Snyder, LHRU Dr. Showel, LHRU Dr. Whitmore, AHRU Dr. Ward, HRU	5 (each mañ)
System	Participation in ANO-chaired committee composed of Humano, APRO, HELL, AMC, formed to plan and execut the implementation of UPSTREAM:IN:	HFORD, ARO	May 63	Dr. Rupe Dr. McClelland Dr. McKnight	.5 ,
	Evaluation of a Raythéon Manual on Hawk Functional Theory,	ARĄŲSCĮY	Oct 62	Mr. Thorne	.2
Not Task- Related -	Participation in Con- legence re digital computer training device.	ARADSCH - (Continued)	Nov 62	Dr. Cox	2

Table 6 (Continued)

U.S. Army Air Defensé: Human Résearch Unit:

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Reinted	Consultation re functional context training. Review of lesson plans,	AŘĄDSCH	May 63	Dr. Rogers	.5
LÓCK-ON	Consultation re on-the- job training programs and job nids, and run- down on LOCK-ON.	The Martin Co., Orlando, Fla.	May 63	Dr. Rogers Dr. Baldwin Sgt. Daley	.5
VIGIL V	Meeting with USARADBD re maximum ambient noise levels permissible in radar operator vans.	USARADBD	Oct 62	Mr. Weight-	.5 .
Not Tusk- Related:	Determination of minimum math skills required for basic cleetronies and missile systemstruction.	ARADSCII.	Jun 63 (Continu- ing into FY 64)	Dr. Cóx Mr. Montgómery	-15

Table 7.
U.S. Army Aviation Human Research Unit.

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Consultation with North American Aviation; Columbus, on Simu- lator Study for New Surveillance Aircraft.	USATRC	Jul 62	Mr. Wright	1.5
LOWENTRÝ	Seminar on Light Inten- sification and Night Vision at Mobility Com- mand, Detroit Arsenal, Presentation of paper on "Pilot Information Requirements for Low Level Flying with Restricted Visibility."	Director of Engineering, AMC, St. Louin	Sep 62	Mr. Weight	3
Not Task- Related		•	Nov 62- Jun 63	Dr. Lyons Dr. Prophet Maj. Haid	
Not-Task- Related	Consultation on continuing participation in human factors evaluation of prototype LOHs. Visits to three contractor plants. Coordination on plan of test.	USAATB	Nov 62- Jun 63 (Continu- ing)	Dr. Prophet Mr. Boyd Mr. Wright Maj. Haid Mr. Jolley.	٠.
LIFT	Study of proficiency evaluation procedures of the Department of Retary Wing Training.	Director, Dept. of Redary Wing Tresulng.	Dec 62- Jun 63 (Continu- ing)	Dr. Prophet Dr. Caro Mr. Boney Dr. Lyons	(profes- nional) .255 (clerical and enlisted)
Not Task- Related	Assistance to USAPHS on warrant officer pre- flight training.	Comdti; USAPHS (Continued)	Jan 63	Dr. Prophet Dr. Lyons	,

Table 7 (Continued)
U.S. Army Aviation Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
	(1) consultation on helicopter training and tactics.	Federal Systems Division, IBM	Jan 63-	Mr. Wright Mr. Schultz Mr. Blohm Mr. Jolley	2,5
	(2) consultation on digital computers for helicopter operation.		Mar 63	Mr. Wright Mr. Pauley	
Not Tank- Related	Consultation on target recognition from sensor returns.	IBM	Feb 63	Dr. Thomas Mr. Wright Mr. Jolley Mr. Blohm	1+
Not Task- Related	Evaluation of Aviation Training Device, 2-B-12/ At the request of USNTD the Available took part in further evaluations of this device and suggested ce tain modifications. Furth evaluation of the revised prototype will follow.	C. :s r- :er	Feb 63	Dr. Prophet Mr. Boney	
OBSERVE 1	Elaboration of informa- tion on OBSERVE 1.	Canadian Army Operational Research Estab- lishment, Ottawa Ontario, Canada	Mar 63 ,	Dr. Thomas	1,4
Not Task- Related	Review of document, "A Mathematical Model for the Visual Detection of Low Flying Aircraft."		Mar 63	Dr. Thomas Mr. Wright Dr. Lyons	2
Not Tank- Related	Assistance on LOH vs. fixed wing study. Preparation of paper drawing upon past research for information relevant to LOH study.	USAAVNCDA	Mar- Apr 63 (Continu- ing)	Dr. Lyona Dr. Prophet Dr. Thomas Mr. Wright Mr. Waller	5.5
OBSERVE I-II	Preparation and presentation of a lecture on visual search technique for personnel of 73rd Avation. Co. prior to shipm to USARPAC. The programmed materials for observer training develon OBSERVE II were us to train some of the per	son-	Apr- May 63	Dr. Thomas Pfc Reese Mr. Jolley	4,5
	nel of the 73rd Aviation	i Go. —— (Continued) -			

Table 7. (Continued)
U.S. Army Aviation: Human Research/Units

Tank or Activity	Nature of TAS	Requesting Agency	Dete	Advisory Personnel	Time Expended (days)
Not Tank- Related	Anniationce in prepara- tion of briefing for Anat. Secy. of Army for Logistics and Facilities.	UŞAAVNS	Apr <u>\$</u> 3.	Dr. Lyonu Dr. Prophet Mr. Weight	1:5
Not Tank- Related	Assistance in connection with Fixed Wing Warrant Officer Candidate Course—Measurement of leadership and self-initiated drop-out training.	USAAVNS	Apr. 63	Dr. Prophet Mr. Boyd Mr. Boney Mr. Jolley	· Ś •
Not Task- Related	Anniatance in evalua- tion of off-the-shelf rotary wing sireraft trainers programmed from Jun'through Oct 63.	Condu, USAAYNS	May.63 (Continu- ing)	`Me, Weight Me, Boyd	' 5
Not Tank- Related	Heview of SDRs— Pilot's Clip Board, Rear View Mirrors for Helicopters,	USAAVNCDA	May 63.	Mr. Wright Dr. Prophet Maj. Haid	
Not Tank- Related	Attendance at and par- ticipation in training device conference at Fort Rucker.	USAAVNS	Jun 63	Maj. Haid Dr. Prophet Dr. Curo	3
Not Tunk- Related	Brief consultations and/ or correspondence pro- viding published reports of research by-products, e.g., slides, training materials, etc.	Various Army Installations, British Linison Officer, and Industry	Jul 62- Jun 63 (Six meetings)	Dr. Lyons Dr. Thomas Mr. Wright Mr. Blohm	-
All Taoks	Consultations on a great variety of subjects drawing upon specific research results, experience, and expertise of professional staff, includes requested briefings.	Various Army and other military agencies, representatives of Allied Military at request of Arm industry, and other professional and nonprofessional agencies		All profes- sional-staff.	
LIFT-IV	Proparation and pub- lication of CR, "A Sys- tem of Flight Training Quality Control and Its Application to Helicopter Training."	USCONARC	Jun 63.	Mr. Duffy Dr. Colgan	

Toble.8 Action.Briefings in FY 1963

Division	Tank	Date	Location	Presented by	Reference for Recommendations
TMD	JOBTRAIN IV	19 Sept 62	USASESCS	Mr. Gebhard	TND JOBTRAIN Files
TMD	NICORD.1:	12 Dec 62	HQ USCONARG	Dr. McKnight	Progress Report on Task
AHRU	untr II	26 Mar 63	HQ UÉCONARC	Dr. Baker Col. Spires	Brigfing, HumRRO Elle
LHRU	TRANSITION I	2 Nov 62	DCSIT, HQ USCONARG	Dr. Snyder Dr. Caylor	Tank Paper by R. Snyder and J.S. Cnylor, Feb 63:
		13 Dec 62	DCSPER, DA	Dr. Snyder Dr. Caylor	Briefing DCSPER 13 Dec 62
ADHRU	UPSTREAM III	27 Aug 62	HQ USCONARC	Dr. Rupe	TR 83 Apr 63
		19 Nov 62	HQ USACDG, and staff of USAAMG and OCP	Dr. Rupe	TR:83 Apr 63-
		6 Dec 62	CRD and staff	Dr. McClellaud	TR 83, Apr 63
		14 Dec 62	DA staff	Dr. Rupe	TR 83 Apr 63
D.O.	"Role of HumRRO us it Relates to the School System"	16 Aug 62	U.S. Army School Commandants Conference, USCONARC	Dr. Crawford	Director's Files
D.O.	"The Role of HumRRO in Relation to the ATC's (U)"	21 Mar 63	U.S. ATC Com- manders Con- ference, Fort Jackson, S.C.	Dr. Crawford	Director's Files

KEY TO ABBREVIATIONS IN TABLES

AFB	Air Force Base	USÁADCDA	U.S. Army Air Defense Command Devel-
ALĄŤ	Army Language Aplitude Test	• •	opments Agency, Fort Bliss, Tex.
AMC	Army Materiel Command	USÂANC	U.S. Army Artillery and Missile Center,
APRO	Army Personnel Research Office,	*****	Fort Sitt, Okfa,
	Washington, D.C.	USAARMBD	U.S. Army Armor Board, Fort Knox, Ky.
ARADSCH	U.S. Aimy Air Defense School, Fort	USAARMC	U.S. Army Armor Center, Fort Knox, Ky,
	Bliss, Tex.	USAARMCDA:	U.S. Army Armor Combat Developments
ARO	Army Research Office, Arlington, Va.		Agency, Fort Knox, Ky.
ATC	Army Training Center	USAARMS	U.S. Aimy Armor School; Fort Knox, Ky.
ATP	Army Training Program	USAATB	U.S. Army Aviation Test Board, Fort
ATRC	Air Training Command, Randolph AFB, Tex.		Rucker, Ala.
A-VIS	Audio-Visual Information System	USAAVNCDA	U.S. Army Aviation Combat Developments
BCT	Basic Combat Training	99,011110011	Agency, Fort Rucker, Ala.
CDCIA	Combat Developments Command, Infantry	USAAVNS	U.S. Army Aviation School, Fort
	Agency, Fort Benning, Ga.	• • • • • • • • • • • • • • • • • • • •	Rucker, Ala:
CONTRALANT	Commander, Training Command,	USACDC	U.S. Army Combat Developments Com-
	U.S. Atlantic Fleet, Norfolk, Va.	00.000	mand, Fort Belvolf, Va.
CORG-	Combat Operation Research Group	USAIB	U.S. Army Infantry Board, Fort
CRD.	Chief of Research & Development,	001415	Benning, Ga.
	Department of the Army, The Pentagon,	USAICDÁ	U.S. Army Infantry Combat Developments
	Washington, D.C.	00,10011	Agency, Fort Benning, Ga.
DA	Department of the Army, The Pentagon,	USAINTC	U.S. Army Intelligence Center, Fort-
	Washington, D.C.	Johnie	Holabird, Md.
TROO	Deputy Chief of Stalf for Individual Train-	ZIAZU	U.S. Army Intantry School; Fort
••••	ing, HQ USCONARC, Fort Montee, Va.	Ugnig	Benning, Ga.
DCSPER	Deputy Chief of Stalf for Personnel,	USALS	U.S. Army Language School,
	Department of the Army, The Pentagon,	osnes	Washington, D.C.
	Washington, D.C.	USAOGMS	U.S. Army Ordnance Guided Missile
DLI	Defense Language Institute,	USAUGMS	School, Redstone Arsenal, Ala.
VHI	Washington, D.C.	DMOAZU	U.S. Army Ordnance Missile Command,
DLI, WCB	Defense Language Institute, West Coast	DOMO	Redstone Aisonal, Ala.
04., 400	Branch, Presidio of Monterey, Calif.	USAPHS	U.S. Amy Primary Helicoptes School,
0.0.	Director's Office [HumfiRO],	03/0 113	
0,0,	Alexandria, Va.	USARADBD	Foil Wolters, Tex.
000		กรหมหภักษา	U.S. Army Air Delense Board, Fort
000	Department of Defense, The Pentagon,	ÚSARAL.	Bliss, Tex.
HEL	Washington, D.C.		U.S. Army, Alaska
ncu	Human Engineering Laboratories,	USAREUR	U.S. Army, Europe
ucapa	Aberdeen Proving Ground, Md.	USARPAC	U.S. Army, Pacific
HFORD	Human Factors and Operations Research	USASCS	The U.S. Army Signal Corps Center and
Pos	Division, Washington, D.C.	Hereces	School, Fort Monmouth, N.J.
BM	International Business Wachines	USASESCS	U.S. Army Southeastern Signal School,
LOH	Light Observation Helicopter	1154.040	Fort Gordon, Ga.
MET	Management Engineering Training	USASWC	U.S. Army Special Warfare Center,
OCP	Office of Civilian Personnel, Department	****	Fort Bragg, N.C.
	of the Army, The Pentison,	USASWS	U.S. Amy Special Warfare School;
o homes	Washington, D.C.	110.470	Fort Braggi N.C.
00C 3 0PS	Office of Deputy Chief of Staff for Mili-	USATC	U.S. Army Training Center
	tary Operations, Department of the Army,	USATC Aimor	U.S. Army Training Center, Armor,
a (a	The Pentagon, Washington, D.C.		Fort Knox, Ky.
OrdCorps	Ordnatce Corps	USATRC	U.S. Army Transportation Research
Pl	Programmed Instruction	4445-444-4	Command, Foil Eustis, Va.
POL	Program of Instruction	USÇONARÇ	U.S. Continental Army Command, Fort
SOR	Small Development Requirement		Montoe, Va.
SigC	Signal Corps	USMA	U.S. Military Academy, West Point, N.Y.
STINFO	Information Retrieval System	USKTDC	U.S. Naval Training Devices Center,
ŢÇ	Army Training Circular		Port Washington, N.Y.
TRALANT	Training Command, U.S. Atlantic Fleet,	WAC	Women's Atmy Corps, The Penlagon,
	Horlolk, Va.		Washington, D.C.

REPORT OF PERSONAL ADVISORY (

Brean Resources Mesearch Office (Director's Office), March 1964

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